## **CLAIMS**

 A coating composition for substantially preventing moisture loss from a cured composite coated with the composition, the coating composition prepared by a process comprising:

heating and blending a mixture comprising waxes and paraffins and dispersing a powdered metal, metal oxide, or metal carbide throughout the mixture; and cooling the mixture to form a waxy solid with powdered metal, metal oxide or carbide dispersed therein;

wherein the waxy solid is substantially free of entrained gasses, wherein heating is not needed to render homogeneous a coating of the composition as applied to a composite, wherein the coating reduces moisture loss from the composite coated therewith, and wherein the composite comprises residual moisture produced by a cure reaction.

- 2. The coating composition of Claim 1, wherein the mixture comprises a mixture of beeswax and paraffins.
- 3. The coating composition of Claim 2, wherein the paraffins comprise primarily aliphatic hydrocarbons having chain lengths in the range from about 18 to about 36 carbon atoms.
- 4. The coating composition of Claim 1, wherein the metal comprises aluminum.
- 5. The coating composition of Claim 1, wherein the metal oxide comprises titanium oxide or aluminum oxide.
- 6. The coating composition of Claim 2, wherein the metal comprises aluminum.
- 7. The coating composition of Claim 2, wherein the metal oxide comprises titanium oxide or aluminum oxide.

- 8. The coating composition of Claim 1, wherein the mixture, before addition of powdered metal or metal oxide, has a melting point in the range of about 120° to 250°F.
- 9. The coating composition of Claim 1, wherein, the composition cools to ambient temperature substantially free of occlusion of gas bubbles.
- 10. The coating composition of Claim 1, wherein the composition is a solid at temperatures in the range below about 120°F, and liquefies upon heating to a temperature in the range from about 140° to about 180°F.
- 11. The coating composition of Claim 1, wherein the powdered metal or metal oxide or metal carbide comprises a sufficient amount to permit uniform heating of a mass of the composition, and to provide such internal compression of a mass of the composition upon cooling as to substantially exclude occluded gasses from a cooled mass.
- 12. The coating composition of Claim 1, wherein the amount of powdered metal or metal oxide or metal carbide comprises from about 5 to about 15 wt. %, based on the weight of the mixture of paraffin and beeswax.
- 13. The coating composition of Claim 1, wherein when coated onto a composite material subject to residual moisture loss, the composition reduces moisture loss by from about 60 to about 100% as compared to an uncoated composite.
- 14. A coating composition for substantially preventing development of cracks in a cured composite, the composite otherwise prone to moisture loss under environmental conditions to which it is exposed, the composition comprising:
  - c) a mixture of esters of fatty acids and aliphatic hydrocarbons having a softening point in the range from about 120° to about 180° F; and

composite to be coated comprises residual moisture resulting from cure of a polymer of the composite.

- 15. The coating composition of Claim14, wherein the mixture comprises paraffins and waxes, the paraffins primarily having a chain length of from about 18 to about 36 carbon atoms.
- 16. The coating composition of Claim 14, wherein the powdered additive is selected from the group consisting of powdered metals, metal carbides and metal oxides.
- 17. The coating composition of Claim 15, wherein the powdered additive comprises powdered aluminum comprising particulates in the range from about 25 to about 60 microns.
- 18. The coating composition of Claim 16, wherein the powdered additive is selected from aluminum and titanium oxide.
- 19. The coating composition of Claim 14, the composition comprising a solid at ambient temperatures in the range below about 120°F.
- 20. The coating composition of Claim 14, wherein when coated onto a composite material subject to moisture absorption under ambient conditions of temperature and humidity, the composition reduces moisture absorption by from about 60 to about 100%.